

# **4th CRR User Meeting 2026**

**Wednesday, April 29, 2026 - Wednesday, April 29, 2026**

**Harbor**

## **Scientific Program**

**Talks**

09:30 - 10:00 Dr. Chunyu Mark Guo "Interweaving electronic orders and Collective Quantum Effects in Kagome Materials"

10:00 - 10:15 Dr. Christoph Reinhardt "*Leveraging nanomechanical membrane resonators for new fundamental physics searches*"

10:15 - 10:30 Nathalie Pranzner "*Fabrication of Nanoimprint-based Liquid Cells for Electron Microscopy incorporating e-transparent Al<sub>2</sub>O<sub>3</sub> windows grown conformally by "flow-through" Gas Phase Deposition*"

**Instruments and Processes 11:00 - 12:00****Dr. Stefanie Haugg**

FIB-SEM and EDS - Combining a Nano-Scalpel with High-Resolution Imaging and Element Analysis

**Dr. Arti Dangwal Pandey**

"ICP reactive ion etching process at the CHyN cleanroom"

**Marie-Charlot Dalchow**

"Introduction to the RAITH Picomaster Laser Writer"

**Paul Stütze**

"PVD PLS 500 (Retrofit): Properties & Possibilities"

**Talks**

13:00 - 13:30 Prof. Franz Kärtner "*High power continuous-wave and short pulse lasers in silicon photonics*"

13:30 - 13:45 Louise von Lacroix "*Tailored Microfabrication for Organ- and Lab-on-Chip Devices*"

13:45 - 14:00 Sophie Rodehutsors "*XBend: Flexoresistance in Gradient Quantum Matter*"

14:00 - 14:30 Dr. Vincent Meyer-Strenzke, Dr. Lars Tiemann "*Nanoscale Engineering of Superlattices in van-der-Waals Materials*"

**Talks**

15:00 - 15:30 Prof. Ralf Riedinger "*Quantum Nanophotonics*"

15:30 - 15:45 Volkmar Koller "*Lithography on SrCoOx Thin Films for Hard X-Ray Momentum Microscopy at Beamline P22*"

15:45 - 16:00 Dr. Ozan Yakar "*Optically Inscribed Second-Order Nonlinearities in CMOS Compatible Silicon Nitride Waveguides*"